THE CLAIMS

1. (Original) A method of testing a pair of thin films, each thin film being formed by a material desired for use as a different one of a pair of contact materials, to obtain information that is usable in a determination whether at least one of the pair of contact materials is appropriate for use as a contact material in a switch, comprising:

performing at least one atomic force microscopy measurement relating to a predetermined characteristic of the pair of contact materials on the pair of thin films after they contact each other with a first controlled force.

- 2. (Previously Presented) The method according to claim 1 wherein: the predetermined characteristic is a contact resistance; and the step of performing the atomic force microscopy measurement comprises obtaining a contact resistance value between the pair of thin films when the pair of thin films contact each other with the first controlled force.
- 3. (Previously Presented) The method according to claim 1 wherein:

 the predetermined characteristic is a current-dependent stiction force; and
 the step of performing the atomic force microscopy measurement comprises obtaining a
 stiction force value between the pair of thin films after the pair of thin films contact each other
 with the first controlled force between the thin films.
- 4. (Previously Presented) The method according to claim 1 wherein the predetermined characteristic is resistivity.
- (Previously Presented) The method according to claim 1 wherein the predetermined characteristic is conductivity.

(Previously Presented) The method according to claim 4, wherein the step of performing б. comprises:

obtaining a resistance value for the pair of thin films when the pair of thin films contact each other due to the first controlled force; and

calculating a corresponding resistivity value.

- (Previously Presented) The method according to claim 6 further comprising evaluating 7. the resistivity value to determine if the pair of thin films is a conductor appropriate for use in the switch.
- (Previously Presented) The method according to claim 5, wherein the step of performing 8. comprises:

obtaining a conductance value for the pair of thin films when the pair of thin films contact each other due to the first controlled force, and

calculating a corresponding conductivity value.

(Previously Presented) The method according to claim 8 further comprising evaluating 9. the conductivity value to determine if the pair of thin films is a conductor appropriate for use in the switch.

Cancel Claims 10-17.

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